

**Rat IgG (H&L) Goat Polyclonal**  
**ATS-SELECT SECONDARY ANTIBODY**

**Catalog Number:** AS-284  
**Quantity:** 2 milligrams  
**Format:** IgG, Liquid (sterile filtered)  
**Host:** Goat  
**Immunogen:** Rat IgG whole molecule

**Background:** Anti-RAT IgG (H&L) (GOAT) Antibody generated in goat detects specifically rat IgG whole molecule. Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the complement cascade, and opsonization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the epitope-recognition site. Both the Heavy and Light chains of the antibody molecule are present. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition. Anti-rat IgG antibody is ideal for investigators involved in serum protein component research.

**Specificity & Preparation:** Anti-RAT IgG (H&L) (GOAT) Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Rat IgG coupled to agarose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Rat IgG and Rat Serum.

**Usage:** Anti-RAT IgG (H&L) (GOAT) Antibody has been tested by ELISA and western blot and is suitable for Immunohistochemistry applications. Specific conditions for reactivity should be optimized by the end user.  
ELISA 1:20,000-1:100,000  
Immunohistochemistry 1:1,000-1:5,000  
Western Blot 1:2,000-1:10,000  
Working dilutions must be determined by end user.

**Storage:** Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Expiration date is one (1) year from date of receipt.

*To view protocol(s) for this and other products please visit: [www.ATSBio.com/library/protocols](http://www.ATSBio.com/library/protocols)*